

The Contour Method

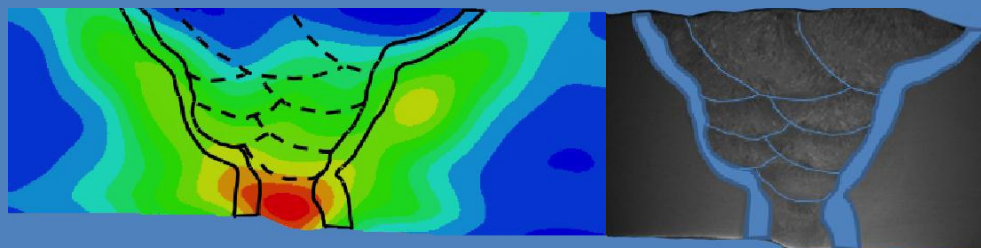
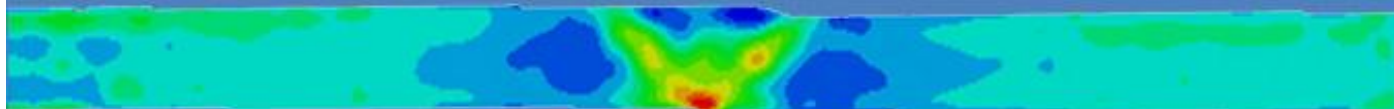
One Day Seminar at The Open University



The Open
University



Wednesday 30th May 2012



Venue:

Seminar Fee:

Registration:

The Hub Theatre, The Open University, Walton Hall, Milton Keynes, MK7 6AA, UK

£75, students £40

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The Contour Method

The Contour Method of residual stress measurement was invented by Dr Mike Prime of Los Alamos Laboratories and first presented in the UK at the 6th International Conference on Residual Stress in Oxford, 2000.

The Materials Engineering Group at The Open University is the leading practitioner of the Contour Method in Europe. In 2009, Professor John Bouchard launched an Advanced Contour Method Research programme supported by Rolls-Royce and the East Midlands Development Agency (*emda*). Research in Materials Engineering is supported by The Lloyd's Register Educational Trust, an independent charity working to achieve advances in transportation, science, engineering and technology education, training and research worldwide for the benefit of all.

The aims of this seminar are to inform industry of best practice in the method, disseminate results from recent research and provide a forum for discussion.

Programme

- 10:00 **Coffee**
- 10:30 **Welcome:** *Professor John Bouchard*
- 10:45 **Opening address:** Residual stress measurement tools for advanced manufacturing
Professor Michael Fitzpatrick
- 11:10 **Keynote lecture:** The Contour Method, a powerful tool for today and tomorrow
Dr Mike Prime
- 12:00 Best Practice I: Controlling the Cut
- 12:30 Best Practice II: Controlling Stress Relaxation
- 13:00 **Lunch**
- 14:00 **Invited lecture:** Application of the Contour Method to support materials engineering
Professor Mike Hill
- 14:30 Best Practice III: Metrology and data analysis
- 15:00 New directions in the Contour Method
- 15:30 **Tea**
- 15:50 **Tour of Laboratories:** Contour Method equipment

Dr Mike Prime, Los Alamos National Laboratory, US

Professor Mike Hill, Professor of Mechanics and Aerospace Engineering, University of California Davis

Professor Michael Fitzpatrick, The Lloyd's Register Educational Trust Chair in Materials Fabrication and Engineering, The Open University

Professor John Bouchard, Professor in Materials for Energy, The Open University

